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from the wreck. A stage was suspended from the derrick, from which a diving-bell larger than the others, but of a similar construction, was successfully worked. By all the contrivances, in which Capt. Dickinson displayed consummate professional skill and ingenuity, turning all his disposable materials to account, and meeting each difficulty as it arose, no less than $\frac{1}{8}$ ths of the treasure, and a large quantity of government stores, were recovered.

The whole account of the operations forms a most interesting narrative of patient endurance, of fatigue, sickness and hardship under difficulties so extraordinary, that they would have been deemed insuperable by any but British sailors under the direction of a most intelligent and enterprising commander.

No. V.

ELEVATING BED FOR INVALIDS.

The Thanks of the Society were presented to J. LUKE, Esq., 39 Broad Street Buildings, for his Elevating Bed for Invalids; a Model of which has been placed in the Society's Repository.

39 Broad Street Buildings,

SIR,

October 9, 1841.

ALTHOUGH several elevating beds have been contrived in some respects superior to that which I have introduced into use at the London Hospital, yet I have not seen any which in its construction is so simple, and in its cost so cheap, as that of which the accompanying is a model. I have, therefore, thought it probable that on these accounts it might be deemed worthy of a place in your museum, and with that view I beg your acceptance of it accordingly.

The mattress, you will perceive, is placed upon the under sacking, and the patient lies on the perforated sheet which is stretched upon the upper frame. The elevation is accomplished by means of a windlass attached to the extremities of a bar fitted into a socket at the bottom of the bed, but capable of removal when not in use. A pin is introduced through the spindle and collar of the windlass, for the purpose of stopping its revolution, and thereby maintaining the elevation of the patient at any point that convenience may require. At the side of the bed a stop is also placed, for the purpose of preventing the parallel bars which support the frame from passing beyond the perpendicular, which stop is wanting in the model.

A further description is given in the "Medical Gazette" for May 7, 1841.

Your obedient Servant,

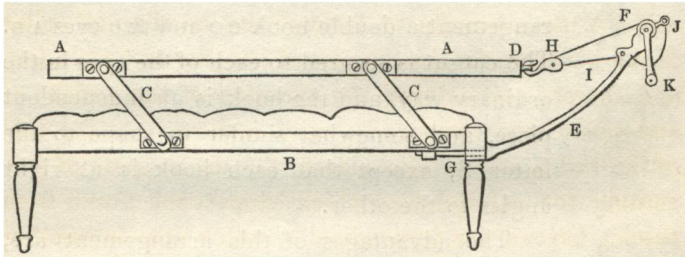
*To the Secretary of the
Society of Arts.*

J. LUKE.

The object of Mr. Luke's invention is to enable the bed of a patient to be easily made, without causing the sufferer to be removed therefrom manually by the attendant, as in the ordinary way. It is also intended by this contrivance, to prevent the patient from being disturbed by the introduction of vessels into the bed for the purpose of cleanliness.

In the accompanying elevation, B is the bedstead, having a sacking as usual, to which, by parallel bars CC, two on each side, is attached a movable frame AA; at one end of the bedstead a curved metal arm is fixed, by being inserted in the socket G; at the end of the movable frame an eye or staple D is fixed, into which, when the

frame is required to be raised, the hook of the pulley H is inserted; the strap I is fixed to the arm E, and passing round the pulley H, returns to the barrel F, movable on an axis in the top of the arm E, and which barrel F is moved round by the handle K, thus winding up the strap, and elevating the invalid frame.



In order to retain the frame A A in its elevated position, a pin J, secured by a string to the arm, is passed through the collar and axis of the barrel. When it is required to lower the frame, it is only necessary to remove the pin.

No. VI.

LATHE-BAND HOOK.

The Thanks of the Society were voted to Mr. SAMUEL NICHOLLS, of No. 19 Salter's Alley, Wapping, for his Hook for connecting Catgut Lines used in Machinery; a Model of which has been placed in the Society's Repository.

19 Salter's Alley, Wapping,

SIR,

November 16, 1841.

THE enclosed is an improved hook for a lathe-band, which, by permission, I leave for your inspection.

I am, Sir, &c. &c.

To the Secretary of the
Society of Arts.

SAMUEL NICHOLLS.